Performance Data Sheet

RKA5490CXA

General Information

Model	RKA5490CXA	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2630	2550					
	Watts	403	430					
	Amps	3.63	3.80					
	Lb/h	37.0	35.5					
-10	Btu/h	3060	2930	2790				
	Watts	420	452	484				
	Amps	3.77	3.99	4.21				
	Lb/h	41.8	40.2	38.6				
-5	Btu/h	3550	3370	3180	2980			
	Watts	434	471	508	546			
	Amps	3.88	4.14	4.42	4.70			
	Lb/h	47.3	45.7	44.0	42.1			
0	Btu/h	4110	3870	3630	3380	3120		
	Watts	446	487	529	571	615		
	Amps	3.96	4.28	4.60	4.93	5.26		
	Lb/h	53.6	51.9	50.1	48.2	46.1		
5	Btu/h	4730	4440	4140	3840	3530		
	Watts	455	501	547	594	642		
	Amps	4.03	4.39	4.76	5.13	5.52		
	Lb/h	60.7	58.9	57.0	55.0	52.8		
10	Btu/h	5420	5080	4720	4370	4000	3630	3250
	Watts	461	512	563	615	667	721	776
	Amps	4.07	4.48	4.90	5.32	5.75	6.19	6.63
	Lb/h	68.4	66.5	64.5	62.4	60.2	57.9	55.4
15	Btu/h	6180	5780	5370	4960	4540	4120	3680
	Watts	465	520	576	633	690	748	808
	Amps	4.09	4.55	5.01	5.48	5.96	6.44	6.94
	Lb/h	76.9	74.9	72.8	70.6	68.4	66.0	63.4
20	Btu/h	7000	6540	6080	5620	5140	4670	4180
	Watts	467	527	587	648	710	773	837
	Amps	4.09	4.60	5.11	5.62	6.14	6.68	7.22
	Lb/h	86.0	83.9	81.8	79.5	77.2	74.7	72.1

25	Btu/h	7890	7370	6860	6340	5810	5280	4740
	Watts	466	530	595	661	728	796	864
	Amps	4.07	4.62	5.18	5.74	6.31	6.89	7.48
	Lb/h	95.9	93.7	91.4	89.1	86.7	84.1	81.4
30	Btu/h	8840	8270	7700	7120	6540	5950	5360
	Watts	462	531	601	672	743	816	889
	Amps	4.03	4.63	5.24	5.84	6.46	7.09	7.72
	Lb/h	106	104	102	99.4	96.9	94.2	91.5
35	Btu/h	9850	9230	8600	7970	7340	6690	6050
	Watts	456	530	605	680	756	833	911
	Amps	3.97	4.62	5.27	5.93	6.59	7.26	7.94
	Lb/h	118	115	113	110	108	105	102
40	Btu/h	10900	10300	9570	8880	8190	7500	6800
	Watts	448	527	606	686	767	849	931
	Amps	3.89	4.59	5.29	5.99	6.70	7.42	8.15
	Lb/h	129	127	124	122	119	116	114
45	Btu/h	12100	11300	10600	9860	9120	8370	7610
	Watts	437	521	605	690	776	862	949
	Amps	3.80	4.54	5.28	6.04	6.79	7.56	8.33
	Lb/h	142	139	137	134	131	129	126
50	Btu/h	13300	12500	11700	10900	10100	9300	8490
	Watts	424	513	602	692	782	873	965
	Amps	3.68	4.47	5.27	6.06	6.87	7.68	8.50
	Lb/h	155	152	150	147	144	141	138
55	Btu/h	14600	13700	12900	12000	11200	10300	9430
	Watts	409	503	597	691	786	882	979
	Amps	3.55	4.39	5.23	6.07	6.93	7.78	8.65
	Lb/h	169	166	163	161	158	155	152

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.941039E+03	1.304659E+02	1.548849E+00	6.603964E+01
C2	2.071053E+02	-5.728747E+00	-6.267297E-02	1.503224E+00
C3	-2.306854E+01	3.972522E+00	3.043577E-02	-1.584675E-01
C4	1.344344E+00	-5.555239E-02	-4.617231E-04	1.450695E-02
C5	-1.133251E+00	1.004096E-01	9.957735E-04	-2.418322E-03
C6	1.414916E-02	-2.065888E-03	-1.759544E-05	2.536503E-04
C7	-1.537904E-04	5.054834E-05	7.398905E-07	-1.256128E-05
C8	-4.254174E-04	3.877795E-05	8.781974E-08	3.823303E-07
C9	2.940865E-04	-3.839796E-05	-2.784420E-07	3.661654E-06
C10	-1.481158E-04	2.160451E-05	1.826192E-07	-2.625632E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature